



# The Ozark Ambassador

National Weather Service Forecast Office  
Springfield, Missouri

March 2018  
Spring Edition

## Ozark Ambassador Team

Steve Runnels  
Warning Coordination  
Meteorologist

David Gaede  
Science and Operations  
Officer

Andy Foster  
Decision Support Leader

Mike Griffin  
Weather Ready Nation  
Ambassador Leader

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## Spring Weather Websites

[NWS Springfield Daily Weather Story](#)

[www.weather.gov/sgf/weatherstory](http://www.weather.gov/sgf/weatherstory)

[NWS Springfield Situation Report](#)

[www.weather.gov/sgf/sitrep](http://www.weather.gov/sgf/sitrep)

[NWS Springfield Severe Weather Page](#)

[www.weather.gov/sgf/embrief](http://www.weather.gov/sgf/embrief)

[Storm Prediction Center](#)  
[www.spc.noaa.gov](http://www.spc.noaa.gov)

## Severe Weather Awareness Week

The National Weather Service (NWS) along with the [Missouri State Emergency Management Agency](#) and the [Kansas Division of Emergency Management](#) has designated the week of March 4th through March 10th as Severe Weather Awareness Week 2018 in Missouri and Kansas. We urge people and businesses to use this time to review the severe weather hazards and safety rules of severe weather season so they are prepared for the upcoming Spring season. Daily severe weather topics, preparedness tips, and safety messages will be provided during the week. For more information, visit <http://www.weather.gov/sgf/severeweatherweek>

WHAT'S  
NEW?



The State Emergency Management Agency and the National Weather Service (NWS) will conduct an Annual Severe Weather Tornado Drill at 10:00 AM on Tuesday, March 6th, 2018. Every school, citizen, and business are encouraged to participate in the drill.

NWS Springfield will issue a test tornado warning as part of the drill. Local warning sirens, NOAA All-Hazards Weather Radio, and the Emergency Alert System (EAS) will be activated to signal the start of the drill. The "TOR" code for EAS and NOAA Weather Radio will be used again this year to simulate what would occur in the event of an actual tornado warning.

Residents and businesses should treat the drill as if it were an actual tornado warning. The purpose of the drill is to test everyone's readiness for life-threatening severe weather events such as tornadoes, flash floods, and damaging winds. Local officials may sound warning sirens to initiate the drill.
















## Severe Thunderstorm Risk Categories

The [Storm Prediction Center](#) issues [Day 1](#), [Day 2](#), and [Day 3](#) Convective Outlooks that depict non-severe thunderstorm areas and severe thunderstorm threats across the contiguous United States, along with a text narrative.

The categorical forecast specifies the level of the overall severe weather threat via numbers (e.g., 5), descriptive labeling (e.g., HIGH), and colors (e.g., magenta). The probabilistic forecast directly expresses the best estimate of a severe weather event occurring within 25 miles of a point. The text narrative begins with a listing of severe thunderstorm risk areas by state and/or geographic region. This is followed by a concise, plain-language summary of the type(s) of threat along with timing that is focused on the highest-risk areas. Additional sections of the discussion are usually separated by geographic areas. Within these individual geographic areas, the text offers meteorological reasoning and justification for the type of coverage and intensity attendant to the severe weather threat. The Storm Prediction Center also issues a [Day 4-8 Severe Weather Outlook](#) that similarly depicts severe thunderstorm threats across the contiguous United States and contains a technical discussion.

THUNDERSTORMS (no label)	1 - MARGINAL (MRGL)	2 - SLIGHT (SLGT)	3 - ENHANCED (ENH)	4 - MODERATE (MDT)	5 - HIGH (HIGH)
No severe* thunderstorms expected	Isolated severe thunderstorms possible	Scattered severe storms possible	Numerous severe storms possible	Widespread severe storms likely	Widespread severe storms expected
Lightning/flooding threats exist with all thunderstorms	Limited in duration and/or coverage and/or intensity	Short-lived and/or not widespread, isolated intense storms possible	More persistent and/or widespread, a few intense	Long-lived, widespread and intense	Long-lived, very widespread and particularly intense
					

## Understanding Severe Weather Hazards

<b>Tornado</b> 	Tornadoes are violently rotating columns of air that can destroy buildings and cause significant injury or death <b>ACTION:</b> Take shelter immediately in a sturdy structure
<b>Large Hail</b> 	Hail can damage vehicles, crops, buildings, and cause injuries <b>ACTION:</b> Move indoors away from windows
<b>Strong Wind</b> 	Strong wind can knock over trees and damage buildings <b>ACTION:</b> Move indoors away from windows
<b>Heavy Rain</b> 	Heavy rain can cause flash flooding <b>ACTION:</b> Avoid rising creeks and water-covered roads
<b>Lightning</b> 	Lightning strikes can cause significant injury or death <b>ACTION:</b> Move indoors if you hear thunder

## Severe Thunderstorm Definition

A severe thunderstorm refers to a thunderstorm producing hail that is at least 1 inch in diameter or larger, and/or wind gusts of 58 mph or greater, and/or a tornado. Although lightning can be deadly, the NWS doesn't use it to define a severe thunderstorm. If it did, every thunderstorm would be severe, by definition.

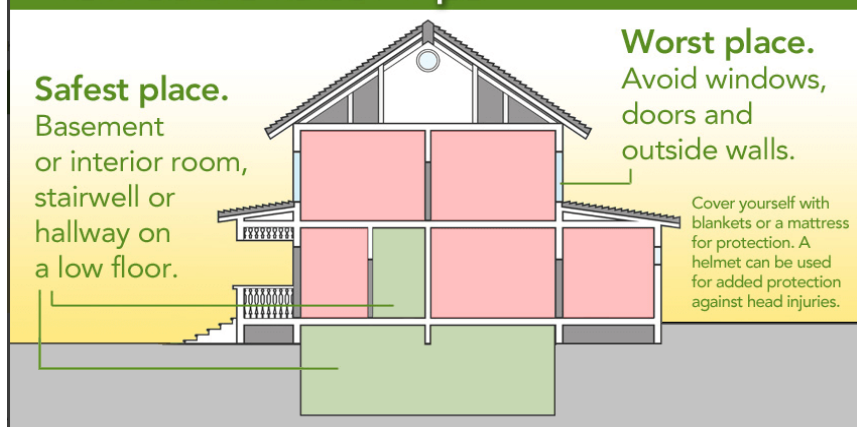
## Watch

Watches are issued when conditions are favorable for a severe weather event. When a Watch is in effect for your area, you should begin preparing for any actions you may need to take should the severe weather event occur.

## Warning

Warnings are issued when a severe weather event is occurring or is imminent. If a Warning is issued for your area immediately take action. If it is a Flood Warning, get to higher ground. If it is a Tornado Warning, get to the lowest point in your home.

## Tornado Shelter Tips



**Tornado Watch** means  
be prepared:  
A tornado is possible

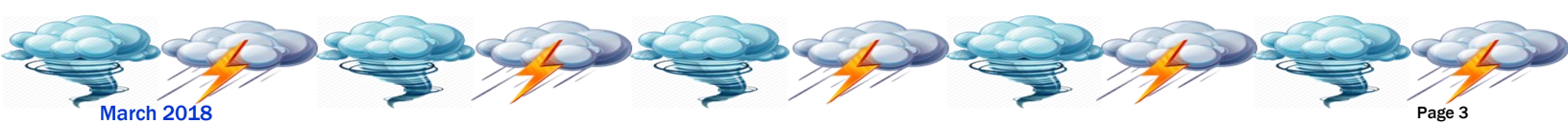
- ☒ Check for forecast updates
- ☒ Plan where to take shelter if needed
- ☒ Stay weather ready

**Tornado Warning** means  
take action!  
A tornado is expected

- ☒ Take shelter indoors immediately
- ☒ If driving find the nearest shelter
- ☒ Check forecast updates
- ☒ Stay weather ready







## DID YOU KNOW?

A tornado that struck Great Bend, Kansas in 1915 had driven wooden splinters into an iron fire hydrant. Imagine that, wooden splinters driven into a cast iron fire hydrant!

The longest single tornado on the ground in history was the Tri-State Tornado. It traveled for 235 miles for over 3 hours before dissipating, with winds reaching near 300 miles per hour.

# TORNADOES

Tornadoes pack the strongest winds on the face of the Earth and on average 1,200 hit the U.S. yearly. Tornadoes have occurred in all 50 states and in every month of the year.

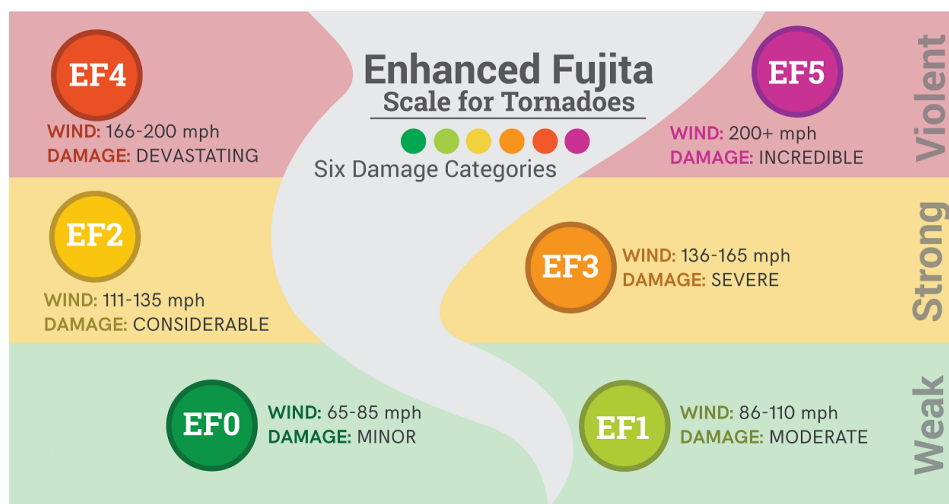


## How Are Tornadoes Rated?

The [Enhanced Fujita Scale](#) or EF Scale, which became operational on February 1, 2007, is used to assign a tornado a 'rating' based on estimated wind speeds and related damage. When tornado-related damage is surveyed, it is compared to a list of Damage Indicators (DIs) and Degrees of Damage (DoD) which help estimate better the range of wind speeds the tornado likely produced. From that, a rating (from EF0 to EF5) is assigned.

The EF Scale was revised from the original Fujita Scale to reflect better examinations of tornado damage surveys so as to align wind speeds more closely with associated storm damage. The new scale has to do with how most structures are designed.

The NWS is the only federal agency with authority to provide 'official' torna-



do EF Scale ratings. The goal is assign an EF Scale category based on the highest wind speed that occurred within the damage path. First, trained NWS personnel will identify the appropriate damage indicator (DI) from more than one of the 28 used in rating the damage. The construction or description of a building should match the DI being considered, and the observed damage should match one of the degrees of damage

(DOD) used by the scale. The tornado evaluator will then make a judgment within the range of upper and lower bound wind speeds, as to whether the wind speed to cause the damage is higher or lower than the expected value for the particular DOD. This is done for several structures not just one, before a final EF rating is determined.





## How to Report Severe Weather

There are a variety of ways to report weather to the NWS office in Springfield, MO. You can use any/all of these to reach us. Below the contact info are the types of information we'd like you to report. Please be sure to include the location of the weather event, e.g. 5 miles northwest of Branson. You may also indicate if you are a trained spotter, a ham radio operator, a member of law enforcement, or other affiliation if applicable.



### Facebook

Post information on our Facebook page:

<https://www.facebook.com/NWSSpringfield>



### Twitter

Send us a tweet:

[@NWSSpringfield](https://twitter.com/NWSSpringfield)



### Email

Send us a email:

[contact.sgf@noaa.gov](mailto:contact.sgf@noaa.gov)



### Mobile App

Send reports from your location via smartphone:

[MPing](#)

Hail Size Chart			
While the National Weather Service encourages the actual measurement of hail size, oftentimes, an object-to-size conversion can provide important information about hail from a severe weather event. Below, you will find a list of common objects used to describe the diameter of observed hail.			
0.25 inches	Pea	2.00 inches	Hen Egg
0.75 inches	Penny	2.50 inches	Tennis Ball
1.00 inches	Quarter	2.75 inches	Baseball
1.50 inches	Ping Pong Ball	3.80 inches	Softball
1.75 inches	Golf Ball	4.50 inches	Grapefruit

Make a plan today. Your family may not be together if a disaster strikes, so it is important to know which types of disasters could affect your area. Know how you'll contact one another and reconnect if separated. Establish a family meeting place that's familiar and easy to find.

**Step 1: Put together a plan by discussing these 4 questions with your family, friends, or household to start your emergency plan.**

How will I receive emergency alerts and warnings? What is my shelter plan? What is my evacuation route? What is my family/household communication plan?



MUST Have Supplies			
First Aid Kit	Phone/Charger	NOAA Weather Radio	Water
Non-Perishable Food	Flashlight	Batteries	Whistle (to signal help)
Additional Supplies			
Extra Infant Food	Pet Supplies	Books/Games	
Extra Cash	Fire Extinguisher		
Important Records	Change of Clothes		

**Step 2: Consider specific needs in your household.**

As you prepare, tailor your plans and supplies to your specific daily living needs and responsibilities. Discuss your needs and responsibilities and how people in the network can assist each other with communication, care of children, business, pets, or specific needs like the operation of durable medical equipment. Create your own personal network for specific areas where you need assistance. Keep in mind some these factors when developing your plan:

**Step 3: Fill out a Family Emergency Plan**

Download and fill out a family emergency plan or use them as a guide to create your own. [Emergency Plan for Parents](#)

**Step 4: Practice your plan with your family/household**







## 6 WAYS to receive a warning



## Your Mobile Device Could Save Your Life

There are multiple ways to receive warnings at your fingertips

text messaging service  
social media  
weather apps  
mobile.weather.gov  
from your family and friends  
wireless emergency alerts - WEA



mobile.weather.gov



Timely delivery of National Weather Service (NWS) weather warnings issued by our offices across the nation is critical to the NWS' mission of the protection of life and property. It is very important that you are able to receive warnings and weather information at home and at work. Two of the most effective ways you get can warning information directly from the National Weather Service are through Wireless Emergency Alerts on your mobile phone, and on NOAA Weather Radio.



## Building a Weather-Ready Nation

### Regional NWS Office's Contact Information



NWS Offices	Telephone #	Website
Springfield, MO	417-869-4491	weather.gov/springfield
Kansas City, MO	816-540-6021	weather.gov/kansascity
St. Louis, MO	636-441-8467	weather.gov/stlouis
Paducah, KY	270-744-6440	weather.gov/paducah
Tulsa, OK	918-838-7838	weather.gov/tulsa
Wichita, KS	316-942-3102	weather.gov/wichita
Little Rock, AR	501-834-0308	weather.gov/littlerock

